

The Knowledge Bank at The Ohio State University

Ohio State Engineer

Title:	Front Matter
Issue Date:	May-1939
Publisher:	Ohio State University, College of Engineering
Citation:	Ohio State Engineer, vol. 22, no. 6 (May, 1939), 1-3.
URI:	http://hdl.handle.net/1811/35614
Appears in Collections:	Ohio State Engineer: Volume 22, no. 6 (May, 1939)

BROWN HALL LIBRARY

THE OHIO STATE ENGINEER

TA
1
036
V. 22, no. 6
May 1939
copy 3



MAY, 1939

VOL. XXII

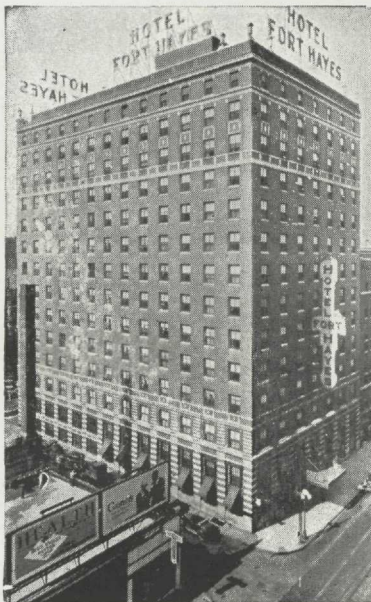
No. 6

FIFTEEN CENTS

MEMBER OF THE ENGINEERING
COLLEGE MAGAZINES ASSOCIATED

HOTEL FORT HAYES

In Columbus



YOU WILL like Hotel Fort Hayes! Modern, attractive and up-to-the-minute in furnishings, comfort and service. Recently thousands of dollars were spent making further improvements to the Fort Hayes. You will find your room now more comfortable than ever, freshly decorated and spotlessly clean. And most important — a friendly, cordial at-home atmosphere.

350 ROOMS WITH BATH

Hotel Fort Hayes offers the most outstanding hotel value in Columbus. The beds are exceptionally comfortable. Every bath is fully tiled. Large windows provide better view and ventilation.

**\$2.00
UP**

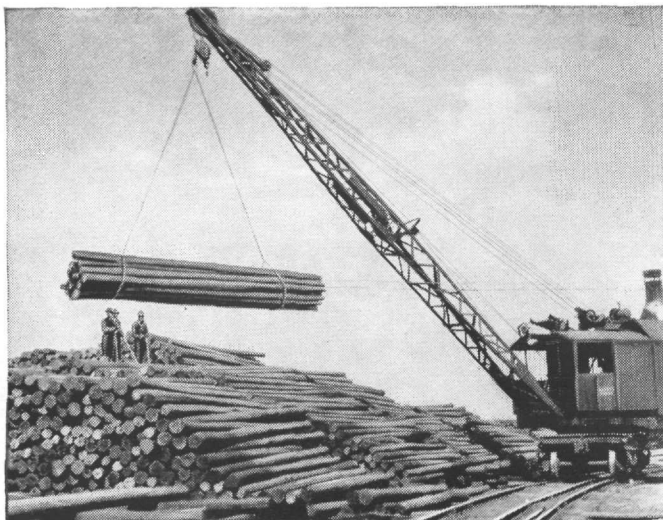
Good food has won countless good friends for the Fort Hayes. All food service is under the direction of an expert catering manager for many years associated with leading hotels both here and abroad. Popular prices of course — and food that is exceptional in variety and deliciousness.

HOME OF THE FAMOUS MIKADO COCKTAIL LOUNGE

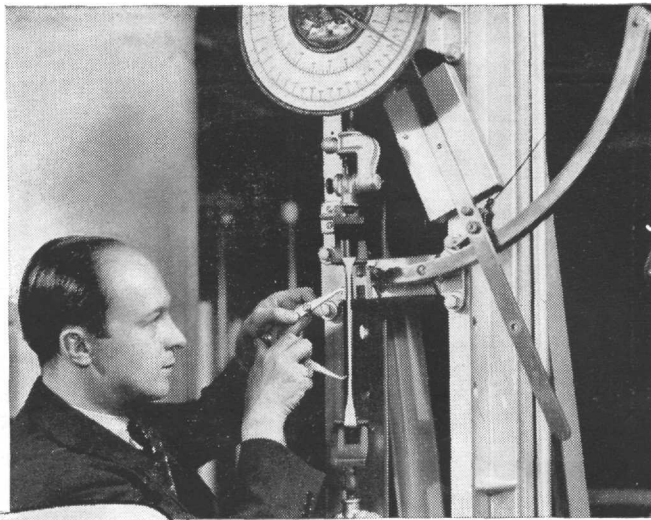
An exotic room, gorgeous in architecture and color, where your favorite cocktail or other beverage is doubly enjoyable. Special grill food service and entertainment. The Mikado is Columbus' most popular Cocktail Room.

R. I. GRIFFITH

Managing Director



① Poles are only one of the hundreds of items which Western Electric supplies.



② All materials must pass severe tests. Here an engineer tests a sample of that important little item — rubber tape.



③ Moulding handles for telephone handsets—one of 248 parts in your Bell telephone.



Some things
Western Electric
does . . . so you
can say . . .

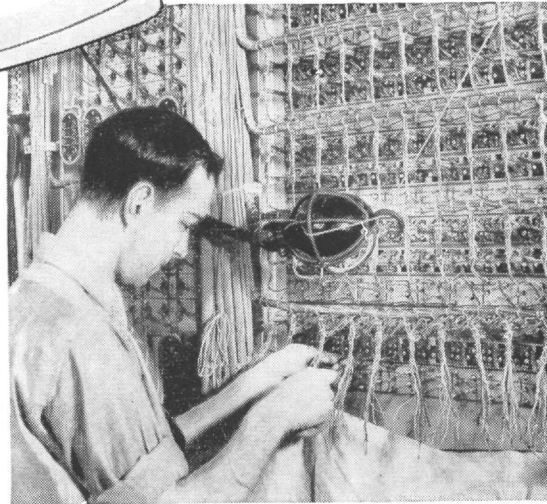
"It's good
to hear
your
voice"



④ Each of the three thousand, six hundred thirty-six wires in this cable is given a thorough electrical test.



⑤ Twenty-nine distributing houses furnish the Bell Telephone companies with practically everything they require.



⑥ And the Company installs the equipment in telephone exchanges.

Western Electric

...made your
BELL TELEPHONE

The Lewis Welding and Engineering Corp.

881 Addison Road --- Cleveland, Ohio

ENGINEERS — DESIGNERS — FABRICATORS

*America's most beautifully equipped
hotel* **WELCOMES THOSE ATTENDING**

THE WELDING ENGINEERS CONFERENCE

Meet Your Friends at the **Deshler-Wallick**
Where a Genuine Welcome Awaits You.



JAMES H. MICHOS, MGR.
COLUMBUS, OHIO

THREE FAMOUS DINING ROOMS

- The Sapphire Room
- The Spanish Room
- The Ionian Room

1000 ROOMS

1000 BATHS

GARAGE FACILITIES

THE DESHLER-WALLICK

THE ENGINEER STAFF

Editor in Chief
Franklin M. Rhodes

Associate Editors
Albert Ankrom
Robert Derrenberger
Helmuth Engelman

Departmental Editor
Jack Zimmerman

Assistant Editors
Jack Shulman
Perry Borchers
Joseph Fenwick

Editorial Assistants
Elgar Brown, Roland Lynch, Robert Tobias, Jane Funston, F. Robert Segna, John Borman, Sid Isenberg, Charles Hansen, Fritz Myers, Bob Chandler, Jim Brown, Ray Schmitt, Ben Bell

Business Manager
Richard W. Dawson

Advertising
Charles Olsen
Gerry Rechten

Advertising Assistants
Eugene McBride, Truman Clark, John Menrath, Gordon McKenzie, Charles Gagenheimer

Circulation Manager
Bob Hawthorne

Circulation Assistants
Ted Smart, James Rickey, Bill Mericle

Board of Control
Dean C. E. MacQuigg, Professor E. E. Kimberly, Professor S. R. Beitler, Professor W. R. Dumble

THIS MONTH . . .

We take genuine pleasure in publishing the largest issue since May, 1930. We feel that there is little need to call your attention to any particular article or articles since all the authors seem to have done such a fine job. However, to the graduating seniors we will say this: in Otto W. Winter's article is some advice, which, if heeded, will give you a big boost along the road to success. We sincerely hope you enjoy this issue and assure you that it does cover the latest developments in welding.

NEXT MONTH . . .

Will be the last issue of the year. For the convenience of those who will soon be alumni, we plan to publish a complete directory of the permanent addresses of all graduating seniors. Also, we will have an article giving you plenty of information on how to become a registered professional engineer.

THE

OHIO STATE ENGINEER

Vol. XXII

MAY, 1939

No. 6

IN THIS ISSUE

Welding Conference Program.....	Page 5
Design and Fabrication of all Welded Bridge Cranes by W. G. Wehr.....	Page 6
Our Welding Course by J. R. Stitt.....	Page 10
The Flame Hardening Process by Roland Lynch, '41.....	Page 11
Resistance Welding in Steel Mills by E. J. Del Vecchio.....	Page 12
Electric Resistance Welding in the Aircraft Industries by Robert Segna, '42.....	Page 14
Great Lakes Freighters Gradually Turn to Welding by E. B. Williams.....	Page 19
Chronicles and Pitfalls by Otto W. Winter, '29.....	Page 20
The Engineer's Bookshelf by Professor W. R. Dumble.....	Page 23
Model Building as a Hobby by Charles Bangert, Jr., '41.....	Page 26
Departments and Societies.....	Page 30

Members of the Engineering College Magazines Associated

National Chairman: Tom Rogers
2-144 General Motors Bldg., Detroit, Michigan

Arkansas Engineer	Minnesota Techno-Log	Pennsylvania Triangle
Colorado Engineer	Nebraska Blue Print	The Purdue Engineer
Cornell Engineer	New York University	Rose Technic
Iowa Engineer	Quadrangle	Tech Engineering News
U of Iowa Transit	North Dakota State Engineer	Illinois Technograph
Kansas Engineer	The Ohio State Engineer	Villanova Engineer
Kansas State Engineer	Oregon State Technical	Washington State Engineer
The Marquette Engineer	Record	Wayne Engineer
Michigan Technic		Wisconsin Engineer

FRANKLIN M. RHODES, Editor-in-Chief

RICHARD W. DAWSON, Bus. Mgr.

Published in the months of November, December, February, March, April, May, and June by the students in the College of Engineering, The Ohio State University, Columbus, Ohio. Subscription price, 97 cents (tax 3 cents) per year for seven copies; Single copies, 15 cents each. Make checks and money orders payable to THE OHIO STATE ENGINEER.

Entered as second-class matter May 15, 1912, at the post office at Columbus, Ohio, under the Act of March 3, 1879. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917. Authorized December 8, 1922.